

Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL

For FY 2005

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete if Known

Application Number	10/782,284
Filing Date	February 18, 2004
First Named Inventor	John Santhoff et al.
Examiner Name	Melanie Jagannathan
Art Unit	2666
Attorney Docket No.	00121

METHOD OF PAYMENT (check all that apply)☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____☒ Deposit Account Deposit Account Number: 50-3143 Deposit Account Name: Pulse~LINK, Inc.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180
Total Claims		
- 20 or HP = _____ x _____ = _____		
HP = highest number of total claims paid for, if greater than 20.		
Indep. Claims		
- 3 or HP = _____ x _____ = _____		
HP = highest number of independent claims paid for, if greater than 3.		
Multiple Dependent Claims		
Fee (\$)		Fee Paid (\$)

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____ - 100 = _____	_____ / 50 = _____	(round up to a whole number) x _____	_____	_____

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Supplemental Information Disclosure (PTO/SB/08A&B) \$180.00**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent) 42,845	Telephone 760-607-0844
Name (Print/Type)	Peter R. Martinez	Date November 9, 2005	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Docket No.: 00121

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

John Santhoff et al.

Serial No.: 10/782,284

Filed: February 18, 2004

For: ULTRA-WIDEBAND
COMMUNICATION
PROTOCOL

Art Unit: 2666

Examiner: Melanie Jagannathan

Carlsbad, California
November 9, 2005

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Dear Ms.:

In accordance with 37 C.F.R. § 1.56, Applicants make the documents listed on the enclosed PTO/SB/08 form of record in the above-identified application. In accordance with 37 C.F.R. § 1.97, this statement is not to be construed as a representation that a search has been made, and is not a representation that the information cited is effective as prior art to the application or is material to patentability.

Copies of the U.S. patents and non patent literature listed on the enclosed form PTO/SB/08 are not enclosed, in accordance with the waiver of the requirement of 37 C.F.R. § 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 that appears in the

Official Gazette Notice (Week No. 31) dated August 5, 2003 and entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications Filed After June 30, 2003."

However, the two (2) foreign patent documents and the 8 non-patent literature documents listed on the PTO/SB/08 form are included for review and consideration.


The U.S. and foreign, patents and published patent applications, and the non-patent literature listed on the enclosed PTO/SB/08 form are cited in several of the following patent applications, which may be related to the present application: Serial No. 10/663,174, filed September 15, 2003; Serial No. 10/782,134, filed February 18, 2004; Serial No. 11/156,135, filed June 17, 2005; and Serial No. 10/835,441, filed April 28, 2004.

In accordance with 37 C.F.R. § 1.97(c), this supplemental information disclosure statement shall be fully considered by the U.S. Patent & Trademark Office since Applicant filed after the period specified in 37 C.F.R. § 1.97(b), but before the mailing date of any final action, notice of allowance or an action that otherwise closes prosecution in the application, and is accompanied by the requisite fee as set forth in 37 C.F.R. § 1.17(p) in the amount of \$180.00.

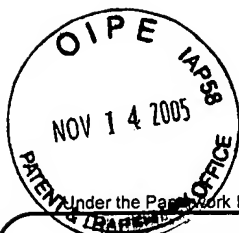
It is respectfully requested that these documents be (1) fully considered by the U.S. Patent and Trademark Office in the examination of the above-identified application; and (2) printed on any patent(s) that may issue from this application. It is also respectfully requested that a copy of Form PTO/SB/08A, as considered and initiated by the Examiner, be returned to the undersigned with the next communication in accordance with M.P.E.P. § 609.

Respectfully submitted,

November 9, 2005
Date



Peter R. Martinez
Attorney for Applicant(s)
Reg. No. 42,845
c/o Pulse~LINK, Inc.
1969 Kellogg Avenue
Carlsbad, CA 92008
Telephone No.: (760) 607-0844



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/782,284
Filing Date	February 18, 2004
First Named Inventor	John Santhoff et al.
Art Unit	2666
Examiner Name	Melanie Jagannathan
Attorney Docket Number	00121

Sheet 1 of 2

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 3,648,287	03-07-1972	LIND	
		US- 4,586,177	04-1986	KAUL	
		US- 5,463,657	10-1995	RICE	
		US- 5,530,701	02-05-1996	STILLMAN ET AL.	
		US- 5,535,239	07-1996	PADOVANI ET AL.	
		US- 5,551,066	08-27-1996	STILLMAN ET AL.	
		US- 5,636,140	06-1997	LEE ET AL.	
		US- 6,041,046	03-2000	SCOTT ET AL.	
		US- 6,088,324	07-2000	SATO	
		US- 6,526,264	02-2003	SUGAR ET AL.	
		US- 6,754,195	06-2004	WEBSTER ET AL.	
		US- 6,760,300	07-2004	EBERLE ET AL.	
		US- 6,856,610	02-2005	SCHMIDT ET AL.	
		US- 6,873,611	03-2005	RIOS	
		US- 6,898,198	05-2005	RYAN ET AL.	
		US- 2002/0126739	09-2002	TIEDEMANN ET AL.	
		US- 2003/0189975	10-2003	FULLERTON	
		US- 2004/0199686	10-2004	KARAOGUZ	
		US- 2004/0151109	08-2004	BATRA ET AL.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 98/27670	06-25-1998	MICRON		
		EP 0 825 794 A2&A3	02-25-1998	LUCENT		

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known			
		Application Number	10/782,284		
		Filing Date	February 18, 2004		
		First Named Inventor	John Santhoff et al.		
		Art Unit	2666		
		Examiner Name	Melanie Jagannathan		
Sheet	2	of	2	Attorney Docket Number	00121

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		WILLIAM D HORNE & PETER WEED, Adaptive Spectrum Radio: A Feasibility Platform On The Path To Dynamic Spectrum Access, International Symposium On Advanced Radio Technologies, March 5, 2003, 1 page.	
		AYAL SHOVAL, W MARTIN SNELGROVE & DAVID A JOHNS, A 100 Mb/s BiCMOS Adaptive Pulse-Shaping Filter, IEEE Journal On Selected Areas in Communications, December 2003, 11 pages, Vol. 13, No. 9.	
		WILLIAM D HORNE, Adaptive Spectrum Access: Using the Full Spectrum Space, 15 pages.	
		PENTEK, INC., MITRE Designs an Adaptive Spectrum Radio Platform, The Pentek Pipeline, Spring 2003, 4 pages, Vol. 12, No. 1.	
		DR. DANIEL SCHAEFER & MR. STEVE COX, Adaptive Spectrum Utilization with Software Defined Radio, October 2, 2002, 23 pages.	
		FEDERAL COMMUNICATIONS COMMISSION, Notice of Proposed Rule Making, In the Matter of Authorization and Use of Software Defined Radios (ET Docket No. 00-47), December 8, 2000, 23 pages.	
		FEDERAL COMMUNICATIONS COMMISSION, Notice of Proposed Rule Making and Order, In the Matter of Facilitating Opportunities for Flexible, Efficient, and Reliable Spectrum Use Employing Cognitive Radio Technologies (ET Docket No. 03-108) & Authorization and Use of Software Defined Radios (ET Docket No. 00-47 Terminated), December 30, 2003, 53 pages.	
		FEDERAL COMMUNICATIONS COMMISSION, Notice of Inquiry And Notice of Proposed Rule Making and Order, In the Matter of Establishment of an Interference Temperature Metric to Quantify and Manage Interference and to Expand Available Unlicensed Operation in Certain Fixed, mobile and Satellite Frequency Bands (ET Docket No. 03-237), November 28, 2003, 31 pages.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.